



STATE ENERGY CONSERVATION MISSION (APSECM)

(A Society registered under AP Societies Registration Act 2001)
Department of Energy, I&I, Government of Andhra Pradesh



TENDER FOR

REPLACING EXISTING OLD PUMP SETS WITH NEW ENERGY EFFICIENT PUMP SETS FOR VARIOUS CAPACITIES OF CPWS SCHEMES IN RWS&S DEPT. IN KURNOOL, PRAKASAM, KADAPA, AND GUNTUR DISTRICTS.

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**PROVIDING ENERGY EFFICIENT TYPE CLEAR WATER AND RAW WATER PUMP SETS
FOR CPWS SCHEME IN RWS&S DEPT. AT KURNOOL, PRAKASAM, GUNTUR AND
KADAPA DISTRICTS**

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1. NOTICE INVITING TENDERS

APSECM (Andhra Pradesh State Energy Conservation Mission) invites sealed application in the prescribed format for supply and retrofitting (after dismantling) of existing old pump sets with new energy efficient pump sets of various capacities at CPWS Schemes of Kurnool and Prakasam districts in the first phase and subsequently in Kadapa and Guntur Districts for which BOQ is now being finalized and will be incorporated as Corrigendum. The source of funding for the project is Bureau of energy efficiency and Rural Water Supply & Sanitation Department in the ratio of 50:50.

1.1 SCOPE OF WORK

Scope of work of the contractor under this tender include Dismantling of old pump sets, handing over of the same with all accessories ,Supply, Installation, Testing and , Commissioning new Energy efficient Pump sets

Supply of Clear Water & Raw Water Pumping Systems at various pump locations (Head works, Sump, Booster Station) as detailed in the BOQ and specifications.

Installation, testing & commissioning of New Clear Water and Raw Water Pump sets including connecting the cables with New Pump sets & Starter Panels with supply & fixing of cable gland & lugs and modification of the foundation required, if any to complete the installation work, providing of pressure gauges at suction side and Discharge side of pumps. All cabling terminating to the existing panel to be removed properly as required at site.

Dismantling & removing of existing Clear water and raw water pump sets & their starter Panels, modification in piping work & removing of Valves & Y strainer.

A survey needs to be conducted periodically by the implementing agency to monitor the performance of Energy efficient pumpsets installed at minimum interval of three months.

To provide Smart meter for each pump set to evaluate the electricity savings due to implementation of the scheme in due coordination with the concerned Power Utility.

To arrange a hoarding/display board at each location duly indicating the name of the energy efficiency project undertaken with details of investment and anticipated energy and monetary savings.

Any statutory approval required for the above work.

Any item not covered above but required for completion of the system as a whole.

Important Note: Bidders are requested to visit the site for making them self-aware of actual requirement for Pumps, to be replaced by new one, before submission of offer.

1.2 Pre-qualification Criteria:

Bidders who fulfill the following requirements shall be eligible:

- The Contractors/Manufacturers who have successfully executed supply and installation of at least 20 nos. of Energy efficient Pump sets of varying capacities of 20 to 150 HP during last three years for Water Supply Schemes in Rural areas/ Municipalities.
- Bidders shall have the valid authorization letter from the manufacturer along with warranty support, if they are not the manufactures.
- Minimum turnover of the company should be Rs. 2.00 Crore per year during last three years and the net worth should be positive (proof of the same shall be attached)

1.3 Procedure for Submission of Bids:

Desirous eligible Bidders may download the tender document from *APTRANSCO/APEPDCL/APSPDCL /RWS&S* website or collect the document from APSECM Head Office at Vijayawada.

Application duly supported by prescribed Annexure I & II and an EMD of Rs.4, 00,000/ (Rs four Lakhs) shall be enclosed along with technical documentation containing Brochures, product catalogues, Drawings , Type test reports and work execution certificates from the clients etc as detailed in the tender document **a sealed envelope No 1**, duly super scribed with the name of work and due date of opening.

The **Sealed Envelop No.2** shall contain **only the Price Bid** in the prescribed format.

Both the envelopes should be placed in a bigger Sealed Envelope and to be submitted to the Chief Executive Officer/APSECM, 2nd Floor, 33/11 kV Indoor SS, and Governor pet, Vijayawada on or before the last date of submission i.e June,11,2018. Following are the **Contact details for any queries.**

Contact Person: KVV Satyanarayana / B.Sri Lakshmi,/ Hemant Kumar

Contact Number: 8919306884/ 8332959029/ 9849101024

Office Land Line: 0866-2577620

Mail Id: ceo.secm@gmail.com; md.apseedco@gmail.com

At the time of submitting the tender, Bidders shall deposit an earnest money deposit of Rs. 400,000/ (Rs four Lakhs only) for proper execution of the contract. The EMD has to be deposited shall be drawn a demand draft or NEFT of any nationalized bank in favor of "Chief Executive Officer/APSECM" payable at Vijayawada. Tender not accompanied by Demand draft of EMD deposited shall be summarily rejected.

EMD shall not bear any interest and this amount shall be forfeited in the event of refusal or delay on the part of the tenderer to sign and execute the contract, in case his tender is accepted. The EMD of unsuccessful bidders shall be returned after finalization of tender. The EMD of the successful bidder shall be adjusted in security deposit.

The full name and postal address of the tenderer shall be written on the bottom left hand corner of the sealed cover.

Exceptions and deviations which Bidders may desire to stipulate be given with the Technical Bid in a separate letter. (Bidders are advised to submit the tenders based strictly on the conditions of contract and specifications contained in the tender documents and not to stipulate any deviations)

APSECM reserve the right to reject such deviations or evaluate the tenders containing deviations having financial implications by adding the cost for such deviations as may be determined by APSECM/RWS&S dept...

No deviations / conditions will be stipulated by the contractor in the Commercial bid.

Tenders shall be signed wherever provided for as well as all pages of tender documents shall be initialed at the lower right hand corner by the tenderer.

If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering / taking up of work in APSECM. The department reserves the right to verify the particulars furnished by the applicant independently.

APSECM also reserves the right to reject any prospective application without assigning any reason and to restrict the list to any number deemed suitable by it, if too many applications are received satisfying the basic pre-qualification criteria.

Acceptance of the tender will rest with APSECM who reserves the right to accept or reject any or all tenders in part or full in case of stipulated deviations or conditions and or quotes with high item rates. Further any tender which does not fulfil any of the prescribed conditions would liable to be rejected defect

1.4 Process for evaluation of Tender:

Technical bids will be opened on June 11, 2018 at 3.30 pm in the presence of interested tenderers or their authorized representatives. A pre bid conference shall also be held if required.

In case of variations / conditions / deviations, if any stipulated by the Bidders, these will be discussed individually with respective tenderers and after giving clarifications if needed, bidders who agrees to accept the terms and conditions as stipulated in the tender / as modified for all the Bidders will be short-listed as qualified tenderers. Bidders who fail to comply with the presented terms and conditions of the technical bid will be declared disqualified.

Commercial bids of qualified Bidders only will be opened at the separate notified date in the presence of interested Bidders.

All the filled rates mentioned in the tender to be inclusive of all duties / taxes / levies / transport charges etc. No escalation in price will be payable for the above work what - so ever be the reasons.

Annexure-1
(Financial Criteria)

The tender of the contractors satisfy the minimum pre-qualification criteria only will be considered for opening. SECM reserves the right to reject any or all applications without assigning any reasons thereof.

Sl.No.	Details	
1	Name & Address of the firm	
2	PAN No. and GST No	
3	Type of organization & Year of Incorporation.	
4	Correspondence address of bidder with contact person's name, telephone number, mobile number etc.	
5	Turnover of the company. Please provide the details for the last 3 years . (Attach proof)	
6	Net worth as per Auditors Statement (attach Proof)	
7	Number of similar works (minimum 20 Nos of 20 HP & above capacity Pumps) carried out during the last 3 years (Attach proof)	
8	Name & address of the client organizations with details of contact person. Please arrange to provide following details: Number of Energy Efficient Pumpsets of 20HP and above installed during last 3 years. Year of execution (Attach proof like copy of work order, performance & completion certificate etc.)	
9	Whether Annexure-II filled up with full Particulars	Yes/No
10	Other information's applicant might like to give in support of the application	

Signature of the authorized person

Company seal.

ANNEXURE-II (Technical Criteria)

LIST OF PUMP SETS INSTALLATIONS OF CAPACITY 20 HP AND ABOVE COMPLETED DURING LAST 3 YEARS IN CPWS/RWS/ MUNICIPAL/OTHER WATER SUPPLY SCHEMES.

Sl.No.	Client	Location of the Installations	Number & Capacity of Pump sets.	Work order Ref.No. & Date	Contract Amount (Rs.)	Remarks

Note: Copy of the work order and performance certificate should be enclosed for each work.

Signature of the authorized person & company seal.

2. FORM OF TENDER

To,

The Chief Executive Officer

APSECM, 2nd Floor,

33kv/11 kv Indoor SS,

Governor pet,

Vijayawada.

Dear Sir,

With reference to the tenders invited by you for the **dismantling of existing old pump sets, supply, installation, testing & commissioning of new energy efficient pump sets of various capacities at CPWS Schemes of Kurnool & Prakasam ,Guntur and Kadapa Districts ,I/We ,the undersigned,** hereby tender and undertake to execute the works under the contract at the rates quoted by me/us in the schedule of quantities and on the terms and conditions of this tender.

I/We have carefully studied and understood the plans, drawings, terms and conditions, schedule of works and have acquainted myself / ourselves with the general site conditions.

I/We the undersigned hereby tender for the execution of specified works in the tender for "APSECM", at the rates entered in commercial bid (BOQ showing items of works to be carried out) and in accordance with the specifications, designs, drawings and the conditions of contract.

I/We agree to complete the work within 12 Weeks including the mobilization period from the date of issue of the work order

I/We enclose herewith a proof EMD deposited for Rs. 400,000/- as earnest money deposit. The said sum shall not bear interest and I/we do agree this sum shall be totally forfeited if in the event of your accepting my/our tender, I/We fail within seven days from the date of intimation of the acceptance of tender to commence the work being called upon to do so.

I/ We undertake that if this work is awarded, we shall execute the works to the full satisfaction of Engineer-in-Charge of SECM/ RWS&S

I/We also undertake to register with the Assistant Commissioner of Labour as required under contract labour (Regulation & Abolition/Rules 1970) and (II) to register with the Tax Department before commencement of the work.

We will adhere to the provision of all labour and GST laws.. We will indemnify the bank for any breach in this matter.

It is understood by me/us that the lowest or any tender will not necessarily be accepted.

Yours faithfully,

(Signature of Bidders)

Name of the Partners of the Firm :

OR

Name of person having Power of : Attorney to sign the Contract

Name/s of the Bank/s in which : Tenderer maintains Accounts

Earnest Money Receipt No. :

3. CONDITIONS OF CONTRACT

Tenderers shall sign wherever provided of and all pages of the tender documents. Tenders not so signed shall be liable to be rejected. The tenders shall be submitted in sealed covers in the office of **The Chief Executive Officer, APSECM, 2nd Floor, 33kv/11kv Indoor Substation, Governor Pet, and Vijayawada** on or before June 11, 218 by 3.00 PM.

Tenders which do not contain the stipulated EMD or that do not fulfil any of the conditions mentioned herein shall be rejected at the discretion of the SECM. Fluctuations in the prices of any materials or equipment or labour etc. shall not be taken into account either for compensation for damage or for extras. The validity of the tender for acceptance shall be 60 days.

All instructions regarding the execution of work shall be received from APSECM/RWS Dept., designated representatives only. Any other instruction issued directly to the contractor by anyone else shall not be binding on APSECM.

3.1 Liability on the part of Contractor:

During execution of work the contractor must check his work with the drawings. In case of any discrepancy between the actual site conditions and that detailed in the drawings, the matter should be brought to the notice of the APSECM/RWS representative before executing the work. The contractor shall be responsible for all the errors in this connection and will have to rectify all defects at his own cost, failing which APSECM reserve all right to get the same rectified at the risk and cost of the contractor.

The contractor entrusted with the work shall indemnify APSECM against theft, mishaps in works and injury to workmen, damage to person's property etc. He shall make good the damage at his own expense.

APSECM shall have the right to omit or cancel, add / or alter any item of work without assigning any reason whatsoever and no claim for compensation for damage will be entertained for such omissions, alterations, additions and cancellations other than taking in account the cost involved for such changes to be plus or minus, and the cost shall be arrived at by APSECM taking into consideration the market rates, site conditions, etc.

Time is the essence of the work. All the works shall have to be completed within twelve weeks from the date of issue of work order. If the work is not completed within the aforesaid period the contractor shall pay penalty to APSECM /RWS&S .The APSECM/RWS&S shall be entitled to deduct the sum of 0.5% of the contract value per week of delay or part thereof, subject to a maximum limit of 5% of the contract amount.

The contractor shall maintain satisfactory progress of work as well as maintain the desired standard of workmanship. He shall submit fortnightly progress reports to APSECM in the format approved by APSECM. If in the opinion of APSECM the progress is unsatisfactory and/or the workmanship is unsatisfactory, APSECM /RWS&S will take possession of the work in as and where condition with 7 days' notice to that effect. And shall then complete the entire work and rectify all the defects at the contractors cost, risk and consequences.

In case APSECM/RWS&S is not satisfied with the quality of materials used by the contractors, they reserve the right to reject such materials/work and direct the contractor to procure such supplies from agencies they deem fit.

It is agreed that if the works are delayed (1) by force majored or (2) by reasons of any exceptionally inclement weather or (3) by reason of loss or any damage by extensive fire not caused by an act or a default on the part of the contractor, by earthquake or civil commotion, strikes or lockouts affecting any of the trade employed upon the works then APSECM shall make fair and reasonable extension of time for completion of works. Upon the happening of any such event, causing delay, the contractor shall immediately give notice thereof in writing to APSECM/RWS&S in all such eventualities, without accepting any contractual/other obligations in this behalf, to seeking extension of time to meet the situation. If no such notice as mentioned above is given within 2 days of happening of such event, no consideration for extra time on account will be given.

No claim for damage or compensation will be entertained on this account and the decision on APSECM /RWS&S will be final and binding on all parties.

The contractor shall clear the site of work as per the instruction of the APSECM. The site of works shall be cleared of all men, material etc. belongings of the contractor. The site shall be delivered in broom clean and neat condition immediately after the job is completed. In

case of failure by the contractor, APSECM shall have the right to get the site cleared at the risk and cost of the contractor.

The contractor shall not, without the written consent of APSECM change the deputed representative at the site.

The quoted rates shall be all inclusive of existing Clear water & Raw Water Pumps at various pump locations (Head works , Sump , Booster Station), NRVs, Valves, suitable rated starters, panel board wiring etc wherever necessary and cover the cost of all materials, freight, all types of taxes, duties, royalties, testing of material samples brought for approval, tools and tackles, plant and equipment, supervision, overheads, profit and any other expenditure incurred for completion of work as per drawings and specifications.

Material & Sample: Material to be new. The whole of the materials / fittings/ equipment employed in connection with the permanent work shall be new and of the best quality.

All proprietary material shall be of approved make and the type as stipulated. Lists of approved makes are given at the end of this document. It will be deemed that the Contractor has priced the respective items on the basis of those approved makes. However, it shall be the prerogative of APSECM to choose any particular make among the list as the most appropriate one and the Contractor shall be bound to provide the same without any variation in the contract rate.

Inspection and testing of materials: APSECM shall be kept informed as to the progress of all works being carried out or materials being manufactured, prepared or supplied so that he may be able to make such arrangements for inspection, testing and analysis as he may desire. Wherever desirable by APSECM, representative will be sent to the Contractor's, sub- Contractor's and / or manufacture's premises to test the materials or inspect their manufacture. Should APSECM decide not to send a representative to the said premises, the Contractor shall obtain from the manufacture's certificate of test, proof sheets, mill sheets, showing that the materials have been tested satisfactory in accordance with the requirements of the specification relating thereto, but neither omission of APSECM to send an inspector nor the production of manufacturer's certificates of test shall affect the liberty of the consultant to reject after delivery of any material found not to be suitable or not in accordance with the specifications.

Wherever required, APSECM shall instruct for supply of samples of items along with type test certificates, and upon approval of the same, the items shall be fabricated and completed by the contractor (with or without modifications as APSECM /RWS&S shall instruct).

The final bill from the contractor shall not be entertained under any circumstances without full completion of all the items of works. Any work found defective or wrongly carried out and instructed by the Architects/Engineer in charge to be rectified or replaced, shall be rectified / replaced prior to submission of the final bill. It is to be expressly noted that no final bill will be held valid in the event of non rectification of the defective or wrongly carried out items and completion date shall not on this account be extended. Defects liability period will be effective from the day of satisfactory completion of all items of works, as may be certified by APSECM and RWS&S..

Since RWS Dept., has water supplying priorities for public purpose, the work shall be carried out in such a way that the operation of pumping station is not disturbed the regular activities at pumping station.

While executing the work, considerable amount of shifting and re - shifting of items are likely to be involved. It is also likely that some of the items might be required to be temporarily shifted elsewhere in the premises on any other floors. These shall be done by the contractor and no payment against these works shall be separately paid for by APSECM.

The contractor shall acquaint himself with the site conditions, local traffic regulations, local authority regulations, availability of materials, labour tax structure etc. and quote rates accordingly. No extra charges/increase in rates shall be allowed on account of any of these or any other accounts.

The contractor shall have a competent supervisor on the site all the time. The contractor and/or his authorized representative will attend all the meetings whenever called for and the decision taken in the meeting will be binding on the contractor.

Figured dimensions in all cases to be followed and in no case should they be scaled. Large scale details take precedence over small scale drawings. In case of any ambiguity, conflict

of interpretation, generally the provisions giving more vigorous interpretation shall prevail and the APSECM decisions in this regard shall be final and binding.

The contractor shall be bound to carry out extra items of works and wherever possible without any extra cost.

Commissioning certificate shall be jointly issued by the SECM and the RWS&S. The representatives of SECM and RWS&S shall also inspect the materials at factory on prior intimation by the Agency before dispatching the equipment.

3.2 Payment Terms:

60 % of contract amount will be made against delivery of the equipment, 20 % of the contract amount will be released against installation, testing and commissioning of the equipment.

.Balance 20 % of the contract amount will be retained for the Defects liability period of 60 months, paid @ 4% every year on pro rata basis. Any defect shall be rectified within 24 hours and should not exceed 48 hrs. in any case.

In the event that the contractor fails to repair in above defined timeline, the RWS Department may perform such repairs and other related components and charge the contractor for such repair charges as mutually agreed between the Contractor and the RWS Department/SECM.

The RWS Department will send the demand note in writing of such repair charges to the Contractor, with the details of repairs and cost incurred for the same.

The State Government will recover such costs of repairs by deductions from the contractor's subsequent invoice(s).

The payment for the defect liability can be released against submission of a suitable BG (as per attached format) submitted from a nationalized bank valid for defects liability period of 60 months.

When the works are complete in all respects, the contractor shall intimate in writing to APSECM to enable APSECM/RWS &S Dept. to take the possession of the same. The work

shall not be considered virtually complete until APSECM/RWS Dept., have inspected the work and certified in writing that this has been completed. As Built drawings and site test certificates shall be submitted along with the Final bill duly certified by APSECM.

3.3 Performance Guaranty: The contractor has to submit 10% of the value of Contract as Performance Bank guaranty which shall be returned after one year of trouble free operation from the date of successful commissioning of all the Pump sets as per BOQ.. The Performance Guaranty shall be in the form of Bank guaranty as per pro-forms in the tender document.

Any breach of the terms and conditions of the contract , abnormal delays and unsatisfactory performance shall attract forfeiture of the Performance Bank guaranty

All quantities mentioned in the BOQ are approximate and contractor will not claim any damages for increase/ decrease in profit on account of variation in the final BOQ.

In case any difference or discrepancy between the specifications / drawings and the description in the schedule of quantities, the schedule of quantities shall take precedence. In case of any difference or discrepancy between specifications and drawing, the specifications shall take precedence.

All disputes of differences of any kind whatsoever which shall at time arise between the parties hereto touching or concerning the works or the execution or maintenance thereof this contract, the same shall be placed before the single arbitrator, for the time being named as the CEO, SECM or any designated Official in SECM whose decision will be final and binding on all the parties.

3.4 ARBITRATION:

The award of the Arbitrator shall be final and binding on both the parties. It is also a term of the contract that if contractor(s) do/does not make any demand for arbitration in respect of any claim(s) within 90 days of receiving intimation from APSECM that the bill after due verification is passed for payment of a lesser amount, or otherwise, the contractor's right under this agreement to refer to arbitration shall be deemed to have been forfeited and APSECM shall be relieved and discharge of their liability under this agreement in respect of such claim(s).

Further, it is agreed that for the purpose of this clause, such notice is deemed to have been received by the contractor(s) within 2 days of posting of the letter by APSECM or when delivered by hand immediately after receipt thereof by the contractor(s) whichever is earlier.

4.0 FORM OF AGREEMENT

This agreement (the Agreement) made at on this day of2018.

BETWEEN

Andhra Pradesh State Energy Conservation Mission (APSECM) is the State Designated Agency (SDA) for state of Andhra Pradesh under the provisions of Energy Conservation Act 2001 (here in referred to as "APSECM") having its registered office at 2nd Floor, 33kv/11kv Indoor SS, Governorpet, Vijayawada.

AND

Rural Water Works & sanitation (RWS&S) of Andhra Pradesh

AND

M/s.Hereinafter called the "**Bidder**" (which expression shall unless repugnant to the subject, context or meaning thereof be deemed to mean and include its successors) of the Other Part.

APSECM , RWS&S and the Bidder are hereinafter collectively referred to as the 'Parties'.

WHEREAS

APSECM(Andhra Pradesh State Energy Conservation Mission) invites sealed application in the prescribed format for supply and retrofitting (dismantling & erection) of existing old pump sets at CPWS Schemes of Kurnool & Prakasam districts to award the works including supply, installation, testing and commissioning of the pump sets, starters, water valves (NRVs, Gate Valves), panel wiring, Pressure gauges at suction side & discharge side etc wherever necessary, specifications of which are as listed out in technical specifications in the Tender opened dated.....

APSECM had invited Tenders from the dealers and has accepted a Tender by the Bidder for the works including supply, installation, testing & commissioning of the pumps, starters,

water valves (NRVs, Gate Valves), panel wiring, Pressure gauges at suction side & discharge side etc wherever necessary, specifications of which are as listed out in at the end of technical specifications in the Tender.

The Bidder has agreed to carry out the works including supply, installation, testing and commissioning of the pumps, starters, water valves etc., specifications of which are as listed out in technical specifications in the Tender.

NOW IN CONSIDERATION OF THE FOREGOING IT IS HEREBY AGREED AS FOLLOWS:

ARTICLE 1 – Supply, Installation, testing & commissioning of EE Pumpsets

The Bidder shall upon and subject to the said conditions agreed for dismantle existing Motors , supply, installation, testing and commissioning of the Energy Efficient Pump sets, starters, water valves etc., specifications of which are as listed out in the end of the technical specifications in the Tender at the time and in the manner set forth in this Agreement and as described in the Work Orders issued from time-to-time by the APSECM for the Contract Price as agreed to herein. Parties hereto agree and confirm that time is essence of this Agreement.

APSECM shall pay to the Bidder as per the quoted rate, upon submission of invoices, measurement sheets, and test certificate and installation reports duly checked and certified by APSECM for the respective work.

The quoted Price will be inclusive of basic price, excise duty, transportation cost, and insurance cost, loading & unloading charges, GST. Any increase in cost due to fluctuations in dollar rates, fuel prices, rates of materials and labour, excise duties levied by the government etc. from time-to-time on the whole products or components thereof will have to be borne by the Bidder

It will be imperative for the bidder to fully inform itself of all legal conditions and factors which may have any effect on the execution of the contract as described in the Tender documents. APSECM shall not entertain any request for clarification from the Bidder regarding such local conditions.

All applicable taxes shall be deducted by APSECM at source according to the tax rate prevalent at the time of making the payment.

The Bidder shall be responsible for and obliged to conduct all contracted activities strictly in accordance with contract using state-of-the-art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

The Bidder shall furnish an interest-free amount of Rs. 400,000- (Rupees Four Lakhs Only) towards the Earnest Money Deposit (EMD) and shall be retained by the SECM as a security deposit.

ARTICLE 2 – Tender to be treated as part of the Agreement

The Tender along with its Annexures, other attachments and deviations, if any, shall be read and construed as forming part of this Agreement and the Bidder hereto shall abide by and submit themselves to the conditions and perform the Agreement on their part respectively in accordance with the terms and conditions contained herein as well as in the Tender.

ARTICLE 3 – Representations and Warranties of the Bidder

The Bidder represent, warrant assure, agree, confirm, declare and undertake that - It is duly organized and a validly existing organization under Indian Laws.

It has power and authority to execute and deliver this Agreement and has taken all necessary steps to authorize execution, delivery and performance of this Agreement.

It has requisite experience, expertise, resources, infrastructure, qualified manpower and other requisite resources to consummate the transactions contemplated under this Agreement.

It has obtained and /or complied with all applicable permits including statutory and regulatory approvals /licenses required to perform the transactions contemplated under this Agreement.

Neither the execution and delivery of this Agreement with APSECM nor the Bidder's compliance with or performance of the terms and provisions of this Agreement shall contravene any provisions of law or any order, writ, injunction or decree of any Court or Government authority nor shall it violate any provisions of memorandum and articles of association affixation/bye laws/partnership deed or any agreement or arrangement to which the Bidder is party.

It shall carry out the work to APSECM, free from manufacturing defects. Defective parts, if any, shall be removed and replaced immediately within **7 working days** of notification, free of charge. If the Bidder having been notified fails to remedy the defect(s) within the period specified, APSECM may proceed to take such remedial action/s as may be necessary, at the Bidder's risk and expense and without prejudice to any other rights which APSECM may have against the Bidder under and in accordance with this Agreement/ Contract. The delay in carry out the work at the respective destinations beyond the agreed period will attract a penalty of 0.5% of the value of work per week or part there of subject to a maximum of 5% of order value as per the respective work order. Any decision of APSECM in this regard shall be final, conclusive and binding on the Bidder.

ARTICLE 4 – Indemnity

The Bidder shall unconditionally and irrevocably, indemnify APSECM against any claims, losses, costs, actions, suits, damages and or otherwise arising due to or on account of Bidder's violation of any terms and conditions of this Agreement, violation of trademarks, patents, copyrights and licenses and shall always keep APSECM, its affiliates, subsidiaries, successors, assigns, officers, directors and employees, indemnified at all times, from and against all claims, losses, damages, costs, actions, suits, compensation or expenses or otherwise, if any, that the APSECM may incur by reason of any action, proceedings which may be brought by or against or taken against the APSECM, by anybody including the customers for anything of any nature whatsoever. This clause shall survive the termination of this Agreement for any reason whatsoever. The Deed of Indemnity shall be executed in the form and to the satisfaction of the APSECM.

ARTICLE 5 -Termination of the Agreement

APSECM may terminate this Agreement for any default /deficiency of services breach of the terms and conditions of this Agreement by giving **30 days notice** to the Bidder requiring it to correct or rectify the defects and deficiency within notice period. In case the specified defects/ deficiencies are not rectified within 30 days, APSECM shall terminate the Agreement forthwith and such termination of Agreement by APSECM shall be binding on the Bidder without any challenge. In such case of termination, APSECM shall have the right to claim all costs, charges and expenses incurred / paid by APSECM in account of default /delay by the Bidder. Bidder agrees that APSECM is entitled to deduct or set off the amount of penalty levied and damages claimed by APSECM from the Bidder in terms of said conditions, from any amount due to Bidder under this Agreement and /or forfeit the EMD submitted/furnished as part of this Agreement by the Bidder in full or in part to make good

the loss, at the discretion of APSECM, apart from other rights available under the applicable law.

Termination of this Agreement shall not affect or prejudice any provisions of this Agreement, which are expressly or by implication provided to continue in effect after such termination.

ARTICLE 6 – Notices

All notices in connection with this Agreement, shall be given in writing, hand delivered or sent by regd. post / courier or by facsimile transmission/e-mail, to the address or fax number specified below, or to such other address or number which the Parties may have last specified. All such notices shall be effective upon receipt to:

5.0 SUMMARY OF AGREEMENT

- Date of Commencement : Within **15 days** from the date of work order
2. Date of Completion : **12 weeks** from the date of work order
3. Liquidated Damages : **0.5 %** of the accepted contract value per week of Delay or part thereof subject to maximum of 5% of the accepted contract value.
4. Defects liability period : **60 months.**
5. Earnest Money Rs.400,000/(Rs Four Lakhs) to be paid in the form of Demand Draft/ NEFT (a proof deposit to be submitted) along with the tender at the time of submission of the tender.(**Bank Account No of SECM: 62336839067,; IFSC Code :SBIN 0021027; PAN :AAKAS9681C**)
6. Retention after virtual Completion **20%** of the total billed (certified) amount towards defect liabilities to be refunded on successful completion of defects liabilities period of **60 months @ 4% every year** on Pro-rata basis. However, this payment can be released against submission of a suitable BG submitted from a nationalized bank valid for defects liability period of 60 months.
7. Period of measurements : **15 working days.**
8. Period for honoring the bill : **45 working days** after certification of the work.

We agree to the terms incorporated in the above „Summary of agreement”

Date:

Signature of Bidder(s)

6.0 PROFORMA FOR PERFORMANCE BANK GUARANTEE

Bank Guarantee No.	_____
Bank Guarantee	_____
Amount Expiry Date	_____
Claim	_____
Amount	M/s .
Account	

THIS GUARANTEE AGREEMENT executed at _____ this ___ day of _Two Thousand Eighteen

BY:

_____ Bank, a body corporate constituted under Banking Corporation (Acquisition and Transfer of Undertakings) Act, 1970/1980, having its Registered Office/ Head Office at _____, and a Branch Office at _____

_____ (Hereinafter referred to as "the Guarantor", which expression shall, unless it be repugnant to the subject or context thereof, be deemed to mean and include its successors and assigns)

IN FAVOUR OF:

ANDHRA PRADESH STATE ENERGY CONSERVATION MISSION, STATE DESIGNATED AGENCY (SDA) first state of Andhra Pradesh under the provisions of Energy Conservation Act 2001 and having its registered office at APSECM, 2nd Floor, 33kv/11kv Indoor SS, Governor pet, Vijayawada (hereinafter referred to as "APSECM" which expression shall unless it be repugnant to the subject, meaning or context thereof, be deemed to mean and include its successors and assigns),

WHEREAS APSECM pursuant to the Tender Documents, general terms and conditions of Contract, the Agreement and the Purchase Orders (hereinafter collectively referred to as "the said documents", the Bank has agreed to purchase from M/s..... and M/s..... has agreed to supply to APSECM certain items of equipment(s), tools and machinery, more particularly described in the Schedule/Annexure to the said documents (hereinafter collectively referred to as "**the Equipment**"), subject to payment of the purchase price as stated in the said documents and also subject to the terms, conditions, covenants, provisions and stipulations contained the said documents.

AND WHEREAS pursuant to the above arrangement, APSECM, has placed work Order No. dated_, for purchasing the Equipment and execution of work (here in after referred to as

“the work Order”), with M/s.(Hereinafter referred to as “Supplier” which expression shall unless it be repugnant to the subject or context thereof, be deemed to mean and include its successors), subject to the terms and conditions contained in the said documents and the Supplier has duly confirmed the same.

AND WHEREAS the Supplier has returned the duplicate of the Purchase Order duly signed in token of its unconditional, unqualified and absolute acceptance, vide its letter dated and has confirmed the performance/ execution of the Purchase Order and the said documents.

AND WHEREAS the said documents and the unconditional, unqualified and absolute acceptance by the Supplier are hereinafter collectively referred to as “the Contract”.

AND WHEREAS in terms of the Contract, the Supplier has agreed to procure an unconditional and irrevocable performance bank guarantee, in favour of APSECM, from a Bank acceptable to APSECM for securing. towards faithful observance and performance by the Supplier of the terms, conditions, covenants, stipulations, provisions of the Contract.

AND WHEREAS at the request of the Supplier, the Guarantor has agreed to guarantee the Bank, payment of the 10% of the Contract value amounting to(*in words*) towards faithful observance and performance by the Supplier of the terms of the Contract.

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

In consideration of the premises, the Guarantor hereby unconditionally, absolutely and irrevocably guarantees to APSECM as follows:

- The Guarantor hereby guarantees and undertakes to pay, on demand, to APSECM at its office at Vijayawada forthwith, theor any part thereof, as the case may be, as aforesaid due to APSECM from the Supplier, towards any loss, costs, damages, etc. suffered by APSECM on account of default of the Supplier in the observance and performance of the terms, conditions, covenants, stipulations, provisions of the Contract, without any demur, reservation, contest, recourse or protest or without any reference to the Supplier. Any such demand or claim made by APSECM, on the Guarantor shall be conclusive and binding notwithstanding any difference or any dispute between APSECM and the Supplier or any dispute between APSECM and the Supplier pending before any Court, Tribunal, Arbitrator, or any other authority.
- The Guarantor undertakes not to revoke this Guarantee during the currency of these presents, without the previous written consent of APSECM and further agrees that the Guarantee herein contained shall continue to be enforceable until and unless it is discharged earlier by APSECM, in writing.
- APSECM shall be the sole judge to decide whether the Supplier has failed to perform the terms of the Contract for supply of Equipment by the Supplier to APSECM and on account of the said failure what amount has become payable by the Supplier to APSECM under this Guarantee. The decision of APSECM in this behalf shall be conclusive and binding on the Guarantor and the Guarantor shall not be entitled to demand APSECM to establish its claim under this Guarantee but shall pay the sums demanded without any objection, whatsoever.

- To give effect to this Guarantee, APSECM, may act as though the Guarantor was the principal debtor to APSECM.
- The liability of the Guarantor, under this Guarantee shall not be affected by _
- Any change in the constitution or winding up of the Supplier or any absorption, merger or amalgamation of the Supplier with any other Company, Corporation or concern; or
- Any change in the management of the Supplier or takeover of the management of the Supplier by the Government or by any other authority; or

Acquisition or nationalization of the Supplier and/or of any of its undertaking(s) pursuant to any law; or any change in the constitution of the Bank; or

any change in the set up of the Guarantor which may be by way of change in the constitution, winding up, voluntary or otherwise, absorption, merger or amalgamation or otherwise; or

The absence or deficiency of powers on the part of the Guarantor to give Guarantees and/or Indemnities or any irregularity in the exercise of such powers.

Notwithstanding anything contained hereinabove, the liability of the Guarantor hereunder shall not exceed the rupee equivalent of(in words) being the 10 % of the Contract value.

This Guarantee will expire on_____. Any demand or claim under this Guarantee must be received by the Guarantor by_____and if no such demand or claim has been received by the Guarantor by the date mentioned as aforesaid, then all the rights of APSECM under this Guarantee shall cease.

For all purposes connected with this Guarantee and in respect of all disputes and differences under or in respect of these presents or arising there from the courts of Vijayawada city where APSECM has its Head Office shall alone have jurisdiction to the exclusion of all other courts.

IN WITNESS WHEREOF the Guarantor has caused these presents to be executed on the day, month and year first herein above written as hereinafter appearing.

SIGNED AND DELIVERED BY
the within named Guarantor,

_____,
by the hand of Shri._____, its authorized official.

Note: - a) The Name and Designation of the Authorized officer(s) of the bank should be compulsorily mentioned.

b) A copy of the resolutions/power of attorneys authorizing the officer(s) for executing the aforesaid guarantee.

7. GENERAL SPECIFICATION FOR PUMPING PACKAGE

SCOPE

The scope of this section comprise the supply, erection, testing and commissioning of Clear Water & Raw Water pump sets subsequent to dismantling and hand over of the old Pump sets .

REFERENCES

ANSI	-	American National Standards Institute
BIS		Bureau of Indian standards
NEMA -		National Electrical Manufacturers Association
UL -		Underwriters Laboratories Inc.
ETL	-	Electrical Testing Laboratories
CSA	-	Canadian Standards Association
NEC	-	National Electrical Code
ISO	-	International Standards Organization
IEC	-	International Electrochemical Commission

SUBMITTALS

- Submittals shall include the following and shall be specific to this project General Submittals shall not be accepted.
- System summary sheet.
- Detailed Shop drawings duly indicating dimensions, foundation details, required clearances and location and size of each pump.
- Power and control wiring diagrams.
- Pump data sheets .etc

MANUFACTURED UNITS

Furnish and install as shown on the plans a Pumping System as per approved manufacturers.

Butterfly Valves, Y Strainers & NRV Valves, Pressure and related equipment shall be installed by the contractor.

e. Power & Control wiring shall be installed by the mechanical contractor as shown on the field connection drawings and wiring diagrams supplied with the pumping package.

PUMPS

SCOPE

The scopes of this section comprise the supply, erection, testing and commissioning of water pumps conforming to these specifications and in accordance with requirements of Schedule of Quantities.

TYPE

The type and size of the clear water/ raw water pump sets at various pump locations (Head works, Sump, Booster Station) shall be in accordance with requirement of Drawings and Schedule of Quantities.

CAPACITY

Water flow rates and head of the pumps shall be in accordance with the requirements of Schedule of Quantities.

SPLIT CASING PUMPS

Pump casing shall be close-grained cast iron of heavy section, horizontally/vertically split, making possible complete servicing of rotating parts without breaking piping or motor connections. Motor to pump connection shall be of the flexible coupling type. Suction passages shall be volute in form, promoting smooth entry to impeller and increased efficiency. Impeller shall be bronze or gun metal, double suction, enclosed type, hydraulically balanced and passages smooth-finished for minimum friction and maximum efficiency. Impeller rings shall be secured from relative movement by tongue and groove fittings. Shaft shall be steel, protected by gunmetal sleeves extending through stuffing boxes. Stuffing boxes shall be extra deep, water sealed with renewable bushes. Shaft shall be supported in ball /journal bearings, grease lubricated, contained in easily removable housing. Pumps shall be fitted with mechanical seals, an air valve, two grease lubricators, drain plug and water seal connections.

Motor shall be energy efficient, totally enclosed, fan-cooled, class-F insulation. Motor shall be specially designed for quiet operation and its speed shall not exceed specified rpm in the schedule. The motor rating shall be such as to ensure none overloading of the motor throughout its capacity range. Motor shall be suitable for $415 \pm 10\%$ volts, 3 phase, 50 cycles AC, and power supply.

Base shall be of a size suitable for the pump, motor and shaft and shall be constructed of welded steel. Flexible coupling shall be protected by a guard mounted on the common base.

Installation: The pump shall be installed on a concrete foundation as approved by APSECM/RWS representative in shop drawings.

Each pump shall be provided with certified performance curves showing power absorbed and corresponding flow rates by varying the speed. Tests shall be done at factory and may be witnessed by Owner's site representative.

PUMP ALIGNMENT

Split casing pumps, prior to testing shall be aligned with a dial indicator within 0.05 mm. Monobloc pumps shall be factory aligned with motor on common base, and need not be realigned at site.

PERFORMANCE DATA

Pump performance curves and power consumption with operating points clearly indicated shall be submitted and verified at the time of testing and commissioning of the installation.

TESTING

Pump performance at site shall be computed from the pump curves provided by manufacturer.

PAINTING

All pumping system, pumps, motors and bases shall be supplied with approved finish. Shop coat of paint that have become marred during shipment or erection shall be cleaned off with mineral spirits, wire brushed and spot primed over the affected areas, then coated with enamel paint to match the adjoining areas.

SERVICE CONDITIONS

Ambient temperature at full speed, full load operation with continuous drive rated output current: 10 to 45°C for ratings up to 90 kW without derating 10 to 40°C for ratings 110 kW and higher without derating.

Relative Humidity: 0 to 95%, non-condensing.

Elevation: Up to 3,300 feet without derating.

AC line voltage variation: + 10% of nominal with full output.

Starter Panel Enclosure protection: Minimum IP 55, integral, with no additional cabinets.
Side Clearances: No side clearance shall be required for cooling.

All power and control wiring shall be done from the bottom.

QUALITY ASSURANCE

All optional features shall be functionally tested at the factory for proper operation.

INSPECTION AND TESTING

All equipment and components supplied may be subjected to inspection and tests by the APSECM/RWS&S during manufacture, erection/installation and after completion. The inspection and tests shall include but not be limited by the requirements of this contract document. Prior to inspection and testing, the equipment shall undergo pre-service cleaning and protection.

Tenderers shall state and guarantee the technical particulars listed in the Schedule of Technical Data. These guarantees and particulars shall be binding and shall not be varied without the written permission of APSECM/RWS&S

No tolerances shall be allowed other than the tolerances specified or permitted in the relevant approved Standards, unless otherwise stated.

If the guaranteed performance of any item of equipment is not met and / or if any item fails to comply with the specification requirement in any respect whatsoever at any stage of manufacture, test or erection, APSECM may reject the item, or defective component thereof, whichever he considers necessary; and after adjustment or modification as directed by the Owner's site representative, the contractor shall submit the item for further inspection and /or test.

The approval of APSECM of inspection and/or test results shall not prejudice the right of the APSECM to reject an item of equipment if it does not comply with the contract document when erected, does not or prove completely satisfactory in service.

The Contractor shall be responsible for the timely transmission of the relevant and appropriate sections of the contract document to manufacturers and sub-contractors for the proper execution of all tests at their works as per contract specifications.

TESTS AT MANUFACTURER'S WORKS

All tests to be performed during manufacture, fabrication and inspection shall be agreed with APSECM prior to commencement of the work. The Contractor shall prepare the details of the schedule and submit these to APSECM/RWS&S for approval. It must be ensured that adequate relevant information on the design code/standard employed, the manufacture /fabrication/assembly procedure and the attendant quality control steps proposed are made available to APSECM who will mark in the appropriate spaces his intention to attend or waive the invited tests, or inspections.

Functional electrical, mechanical and hydraulic tests shall be carried out on completed assemblies in the works. The extent of these tests and method of recording the results shall be submitted to, and agreed by, APSECM in sufficient time to enable the tests to be satisfactorily witnessed, or if necessary for any changes required to the proposed program of tests to be agreed.

APSECM reserves the right to visit the Manufacturer's works at any reasonable time during fabrication of equipment and to familiarize himself with the progress made and the quantity of the work to date.

Within 7 days of completion of any tests, triplicate sets of all principal test records, test certificates and correction and performance curves shall be supplied to APSECM.

These test records, certificates and performance curves shall be supplied for all tests, whether or not they have been witnessed by APSECM or not. The information given on such test certificates and curves shall be sufficient to identify the material or equipment to which the certificate refers and should also bear the Contract reference title.

When all equipment has been tested, the test certificates from all works and site tests shall be compiled by the Contractor into volumes and bound in an approved form complete with index and copies of each volume shall be supplied to APSECM.

Stage wise inspection of equipment in factory is waived.

PERFORMANCE TESTS AT MANUFACTURER'S WORKS

All equipment may be subjected to routine performance tests at the Manufacturer's Works in accordance with the relevant ANSI, ASME, ASTM, BIS standard including operating tests of complete assemblies to ensure correct operation of apparatus and components and compliance to Energy Efficiency standards of BEE..

Pumps, fans, compressor, and other rotating equipment shall be given full load tests, and run to 15% over speed for 5 minutes to check vibration. Main and auxiliary gear boxes shall be subjected to shock load tests and a six-hour endurance run at rated speed and maximum torque.

The Contractor shall submit single line diagrams including the layout of the Plant together with the location of test instrumentation and the principal dimensions of the layout. All calculations to derive performance data shall be made strictly in accordance with format given in the approved standards. Any alterations or deviations from the approved standard test layout or formulae shall be subjected to the prior approval of APSECM.

The performance test shall be conducted over the full operating range of the pump to a closed valve condition and a minimum of five measurement points covering the full range shall be taken. Curves indicating Quantity vs. Head, Quantity vs. Power absorbed, and Quantity vs. Pump efficiency shall be provided. In addition a curve of the NPSH required vs. Quantity shall be provided except when the suction conditions do not require this test. Any proposal for the omission of this test shall be to the approval of APSECM.

On completion of the tests the Contractor shall submit a report showing the test results obtained together with the curves corrected to the site operating conditions.

The Bidder should submit Method statement and Work plan to complete the work within 12 weeks, which will be a part of technical requirement.

INSTRUMENT CALIBRATION REPORT

PROJECT _____

INSTRUMENT / SERIAL NO.	APPLICATION	DATES OF USE	CALIBRATION TEST DATE.

REMARKS.

TEST DATE _____

READINGS BY _____

PUMP TEST REPORT

PROJECT _____

DATA	PUMP NO.1	PUMP NO.2	PUMP NO.3	PUMP NO.4
Location				
Service				
Manufacturer				
Model Number				
Serial Number				
GPM/Head				
Req. NPSH				
Pump RPM				
Impeller Diam.				
Motor Mfr. / Frame				
Motor HP/RPM				
Volts/Phase/Hertz				
F.L Amps				
Seal Type				
Pump Off-Press.				
Valve Shut Diff.				
Act.Impeller Diam.				
Valve Open diff.				
Valve Open GPM				
Final Dischg. Press.				
Final Suction Press.				
Final Ap				
Final GPM				
Voltage (RY,YB,BR)				
Amperage (R,Y,B)				

REMARKS

TEST DATE _____

READINGS BY _____

8.0 LIST OF CONTRACT DRAWING, DOCUMENTS & MANUALS

The supplier shall submit the following drawings, documents and technical manuals in four(4) sets in six(6) weeks from the date of placement of work order.

Descriptions of drawings/documents:

GA Drawings and foundation drawings of Raw Water & Clear and Booster Water Pumps. Control Wiring diagram, shop drawings and foundation drawings shall be submitted for approval before the start of installation work.

- Bill of materials for the above.
- Power and control schematics.
- Any other drawing/document required for the system.

The bidder shall submit "as made" drawings of the above. 3 sets of hard copies, 02 sets of operation and maintenance manuals and 02 sets of type and routine test certificates of major equipments.

9.0 List of Approved Makes / Brands

All materials to be supplied and installed by the contractor shall be of approved makes and conform to the relevant Indian Standard and bear 'ISI' marking distinctly. Wherever the make and model of an item is specifically mentioned in the Bill of Quantity the same shall be considered and quoted for, in the tender. However for the guidance of the contractor some of the approved makes of materials are listed below which can be used when not specifically mentioned in the BOQ. In case the make and model of any item required to be installed is not available in the following list, the same shall be got approved from APSECM representative prior to being brought to site and installed. However catalogues, leaflets and a sample of all material, whether covered in the list or not, shall be submitted to APSECM for approval and only on approval of the same, further orders shall be placed by the contractor. Any material brought to site without the above procedure is liable to be rejected outright.

SLNO	DESCRIPTION	MAKES
1	PUMPS	AMSTRONG/ KIRLOSKER/ XYLEM/ GRUNDFOS / KSB/CRI / BEST& CROMPTON
2	MOTORS	SIEMENS/ KIRLOSKAR/ BHARAT BIJLEE/ CROMPTON/ GRUNDFOS
3	BUTTERFLY VALVES	AUDCO/ HONEYWELL/ ADVANCE/ C&R
4	YSTRAINER	EMERALD/ TRISHUL/DS
5	NRVs	ENGG ADVANCE OR
6	PRESSURE GAUGES MS	EQUIVALENT
7	PIPES	H GURU/ RISHAB/ WAREE
8	SWITCHGEAR OF STARTER PANELS	ZINDAL/ TATA
9	CABLES & WIRES	SIEMENS / L& T/
10	CRIMPING TYPE LUGS	CROMPTON/SCHNEIDER
11	TERMINALS	

		FINOLEX(FRLS)/POLYCAB(FRLS)/ CCI DOWELLS/3D/BRACO ELMEX/CONNECTWELL/WAGO
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NOTE:

All above are the preferred makes as per APSECM/RWS Dept. While quoting, Bidders shall clearly mention against each item in Bill of quantities the actual makes considered for pricing or shall attach a separate list of makes of above items to meet the installation complete in all aspects.

11.0 Annexure -BOQ

RAW WATER AND CLEAR WATER PUMP SETS AT VARIOUS PUMP LOCATIONS (Head works , Sump, Booster Station) TO CPWS SCHEMES OF KURNOOL DISTRICT

(To be submitted in the Envelop-II -Price Bid/ Commercial Bid Cover)

A – Rate for Supply of raw water collection well pump at CPWS Scheme

Sl No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1	<p>Supply and Installation of the Polder Submersible raw water collection well Pump at CPWS Scheme Sunkesula , with a pump efficiency of 72% - 75 % and suitable capacity of Induction /Asychrnous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM ,desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 252 M3/Hr Head : 24 M</p>	1	Set		
2	<p>Supply and Installation of Horizontal split case (HSC) clear water sump (old) at CPWS Scheme to Sunkesula with a pump efficiency of 72% - 75 % with suitable capacity of Induction /Asychrnous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM ,desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 303 M3/Hr Head : 80 M</p>	1	Set		

3	<p>Supply and Installation of the Horizontal split Case (HSC) pump set at CPWS Scheme at Gudur booster station, Sunkesula, with a pump efficiency of 72% - 75 % with suitable capacity of Induction /Asychnous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc . Flow :162 M3/Hr. Head : 99 M</p>	1	Set		
4	<p>Supply and Installation of the Horizontal split case (HSC) pump set at CPWS Scheme at Gudur Pump room, Sunkesula , with a pump efficiency of 65% - 68% with suitable capacity of Induction /Asychnous Type motor complete with Efficiency Classification of IE2/IE3 ,5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc . Flow :84 M3/Hr Head : 65 M</p>	1	Set		
5	<p>Supply and Installation of the Monoblack clear water pump set to Head water works at CPWS Scheme to Alur (Bapuram) & other habitations with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asychnous Type motor complete with Efficiency Classification of IE2/IE3 , 5Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc . Flow : 18 M3/Hr Head : 4M</p>	2	Set		

6	<p>Supply and Instalaltion of the Mono block Intermediate sump at Manekurthy Booster Station, Bapuram of CPWS Scheme with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asychnous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides .Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 16.2 M3/Hr Head : 38M</p>	1	Set		
7	<p>Supply and Installation of the Mono block raw water pump set of CPWS Schme to head works of Alur (Chintakunta) & other habitations with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asychnous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 93.6 M3/Hr Head : 20 M</p>	1	Set		
8	<p>Supply and Installation of the Monoblack Raw water pump set of CPWS Schme to head works of Alur (Chintakunta) & other habitations with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asychnous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides.Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 61.92 M3/Hr Head : 20 M</p>	1	Set		

12	<p>Supply and Installation of the Monoblock Intermediate sump At Sirigapuram Booster station, Alur (Chintakunta) & other habitations of CPWS Scheme with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 28.8 M3/Hr Head : 40 M</p>	1	Set		
13	<p>Supply and Installation of the Horizontal Split Case (HSC) pump set At Source-Gajjuladanda, Pathikonda & other habitations of CPWS Scheme with a pump efficiency of 72% - 75 % and suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM ,desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 510 M3/Hr Head : 48 M</p>	1	Set		
14	<p>Supply and Installation of the Horizontal Split Case pump set At CW sump-Bandagattu, Pathikonda & other habitations of CPWS Scheme with a pump efficiency of 72% - 75 % and suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM ,desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides.Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 234 M3/Hr Head : 99 M</p>	1	Set		

15	<p>Supply and Installation of the Horizontal Split Case Intermediate sump of Kothiralla, Pathikonda & other habitations of CPWS Scheme with a pump efficiency of 72% - 75 % and suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM ,desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure gauges at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 115.2 M3/Hr Head : 48 M</p>	1	Set		
		17			

**RAW WATER AND CLEAR WATER PUMP SETS AT VARIOUS PUMP LOCATIONS (Head works , Sump, Booster Station) TO CPWS SCHEMES OF PRAKSAM DISTRICT
PART B (COMMERCIAL BID)**

(To be submitted in the Envelop-II -Price Bid/ Commercial Bid Cover)

A – Rate for Supply of raw water & Clear water collection pump at CPWS Schemes

Sl No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1	<p>Supply and Installation of Monoblock pump set at head works of CPWS Scheme Cherkur (NAP AP-II Project), Parchur with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with Suitable STAR DELTA Starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides, Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 32 M3/Hr Head :20M</p>	1	Set		
2	<p>Supply and Installation of Mono block pump set at head works of CPWS Scheme , AB Palem (NAP AP-II Project), Parchur with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with suitable STAR DELTA starter (as per requirement in site) to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure gauges at Suction and Discharge sides, Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 32 M3/Hr Head : 25</p>	1	Set		

	Flow :612 M3/Hr. Head : 20 M				
6	<p>Supply and Installation of the Submersible intermediate sump at CPWS Scheme to Darsi other habitations in Prakasam district with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asynchronous motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with suitable STAR DELTA starter (as per requirement in site), to meet the following main parameters of Pump. Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 54 M3/Hr Head : 25 M</p>	1	Set		
7	<p>Supply and Installation of End Suction Centrifugal pump set of CPWS Scheme at Podili pump house, Podili & 32 habitations in Podili Mandal with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with suitable STAR DELTA starter (as per requirement in site), to meet the following main parameters of Pump. Installation rate shall include dismantling, Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 56 M3/Hr Head : 61 M</p>	1	Set		

8	<p>Supply and Installation of End Suction Centrifugal pump set of CPWS Scheme at Kunchepalli pump house, Podili & 32 habitations in Podili Mandal with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with suitable STAR DELTA starter (as per requirement in site), to meet the following main parameters of Pump.Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides.Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 54 M3/Hr Head : 55 M</p>	1	Set		
9	<p>Supply and Installation of End Suction Centrifugal pump set of CPWS Scheme at Kunchepalli pump house, Podili & 32 habitations in Podili Mandal with a pump efficiency of 65% - 68 % with suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with suitable STAR DELTA starter (as per requirement in site), to meet the following main parameters of Pump.Installation rate shall include dismantling , Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 27 M3/Hr Head : 27 M</p>	1	Set		
10	<p>Supply and Installation of Monoblock raw water pump set of CPWS Scheme to Chandavaram & other 25 Habitations with a pump efficiency of 72% - 75 % with suitable capacity of Induction /Asynchronous Type motor complete with Efficiency Classification of IE2/IE3 , 5 Star Rated , Class F Insulation , 1450 RPM , desired for electrical supply of 3 phase 4 wire/415V/ 50Hz with suitable STAR DELTA starter (as per requirement in site), to meet the following main parameters of Pump. Installation rate shall include dismantling, Crimping of lugs at Panel side and Motor side , Supply and providing of Suitable pressure guages at Suction and Discharge sides. Modification of existing concrete Base / Iron Frame work and carrying out necessary repair works on Water Valve side(Gate Valve , NRVs , Butterfly Valves) etc .</p> <p>Flow : 360 M3/Hr Head : 35 M</p>	1	Set		

